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Sent: Monday, April 25, 2011 7:52 AM
To: Lawler, Michael (DPH); Salemi, Charles (DPH)
Cc: Nassif, Julianne (DPH)
Subject: 1,4-BD Retraction

Hello All,

To extract 1,4-BD from an aqueous sample, I'm suggesting we try a method similar to the extraction of GHB free acid. Aqueous samples are first saturated with NaCl and then extracted 2X with ethyl acetate in a 1:2 ratio (water:ethyl acetate). Excess ethyl acetate is then evaporated while making sure not to evaporate to dryness. During my last round of experiments with 1,4-BD I must have isolated the wrong layer, i.e. the H₂O layer instead of the petroleum ether layer....mi culpa. It turns out that petroleum ether, chloroform and ethyl ether have limited success with BD extractions. Ethyl acetate seems to be a better extracting solvent and the trickery with NaCl is beneficial for total recovery levels.